

FORM PTO-1449

ATTY. DOCKET NO.
0942.285000W/BJD/JKMAPPLICATION NO.
10/680,316FIRST NAMED INVENTOR
Hartley *et al.*FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE
STATEMENTFILING DATE
October 8, 2003ART UNIT
1636

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR		
Waf	AS	113	Kuempel, P., <i>et al.</i> , Use of a transposon (Tndif) to obtain suppressing and nonsuppressing insertions of the <i>dif</i> resolvase site of <i>Escherichia coli</i> , "Genes & Develop. 10:1162-1171, Cold Spring Harbor Laboratory Press (May 1996)
	AT	113	Lenski, R.E., <i>et al.</i> , "Genetic Analysis of a Plasmid-Encoded, Host Genotype-Specific Enhancement of Bacterial Fitness," <i>J. Bacteriol.</i> 176:3140-3147, American Society for Microbiology (1994)

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Wafscherski

DATE CONSIDERED

10-9-2005

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Page 2 of 2

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FORM PTO-449

FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE
STATEMENT OF TRADEMARKS

ATTY. DOCKET NO.
0942.285000M/BJD/JKM

APPLICATION NO.
10/680,316

FIRST NAMED INVENTOR
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
was	AR	114	Shuman, S., "Novel Approach to Molecular Cloning and Polynucleotide Synthesis Using Vaccinia DNA Topoisomerase," <i>J. Biol. Chem.</i> 269:32678-32684, The American Society for Biochemistry and Molecular Biology, Inc. (1994)
	AS	114	Stuurman, J., et al., "Single-site manipulation of tomato chromosomes <i>in vitro</i> and <i>in vivo</i> using Cre-lox site-specific recombination," <i>Plant Molec. Biol.</i> 32:901-913, Kluwer Academic Publishers (December 1996)
	AT	114	Zechiedrich, E.L., et al., "Topoisomerases IV, not gyrase, decatenates products of site-specific recombination in <i>Escherichia coli</i> ," <i>Genes & Develop.</i> 11:2580-2592, Cold Spring Harbor Laboratory Press (October 1997)

EXAMINER	was/cherphoff	DATE CONSIDERED	10-03-2005
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	AA						
	AB4	4,683,195	07/28/1987	Mullis et al.			02/07/1986
	AC4	4,683,202	07/28/1987	Mullis			10/25/1985
	AD4	4,965,188	10/23/1990	Mullis et al.			06/17/1987
	AE4	5,102,797	04/07/1992	Tucker et al.			05/26/1989
	AF4	5,334,375	08/02/1994	Nabi et al.			07/16/1992
	AG4	5,334,575	08/02/1994	Noonan et al.			12/17/1992
	AH4	5,378,618	01/03/1995	Sternberg et al.			09/29/1992
	AI4	5,650,557	07/22/1997	Hannah et al.			06/07/1995
	AJ4	5,728,551	03/17/1998	Devine et al.			03/02/1995
	AK4	5,801,030	09/01/1998	McVey et al.			09/01/1995

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL4	EP 0 220 009 A2	04/29/1987	Europe			Yes No
	AM4	WO 91/09957 A1	07/11/1991	WIPO			Yes No
	AN4	WO 92/15694 A1	09/17/1992	WIPO			Yes No
	AO4	WO 94/18333 A1	08/18/1994	WIPO			Yes No
	AP4	WO 96/04393 A2	02/19/1996	WIPO			Yes No

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AR	59	Akagi, K., et al., "Cre-mediated somatic site-specific recombination in mice," Nucl. Acids Res. 25:1781-1788, Oxford University Press (May 1997).
AS	59	Aladjem, M.I., et al., "Positive Selection of FLP-Mediated Unequal Sister Chromatid Exchange Products in Mammalian Cells," Mol. Cell. Biol. 17:857-861, American Society for Microbiology (February 1997).
AT	59	Angrand, P.-O., et al., "Inducible expression based on regulated recombination: a single vector strategy for stable expression in cultured cells," Nucl. Acids Res. 26:3263-3269, Oxford university Press (July 1998).

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W. J. C. P. K. U.

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	AL5	WO 96/30498 A1	10/03/1996	WIPO			Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	60	Ayres, E.K., et al., "Precise Deletions in Large Bacterial Genomes by Vector-mediated Excision (VEX). The trfA Gene of Promiscuous Plasmid RK2 is Essential for Replication in Several Gram-negative Hosts," J. Mol. Biol. 230:174-185, Academic Press Limited (1993).
AS	50	Bai, C., et al., "SKP1 Connects Cell Cycle Regulators to the Ubiquitin Proteolysis Machinery through a Novel Motif, the F-Box," Cell 86:263-274, Cell Press (July 1996).
AT	60	Boshart, M., et al., "A Very Strong Enhancer Is Located Upstream of an Immediate Early Gene of Human Cytomegalovirus," Cell 41:521-530, MIT (1985).

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	AR	61	Bouhassira, E.E., et al., "Transcriptional Behavior of LCR Enhancer Elements Integrated at the Same Chromosomal Locus by Recombinase-Mediated Cassette Exchange," Blood 90:3332-3344, The American Society of Hematology (November 1997).
	AS	61	Burioni, R., et al., "An improved phage display vector for antibody repertoire cloning by construction of combinatorial libraries," Res. Virol. 148:161-164, Insitut Pasteur/Elsevier (March-April 1997).
	AT	61	Capone, J.P., et al., "Introduction of UAG, UAA, and UGA Nonsense Mutations at a Specific Site in the Escherichia coli Chloramphenicol Acetyltransferase Gene: Use in Measurement of Amber, Ochre, and Opal Suppression in Mammalian Cells," Mol. Cell. Biol. 6:3059-3067, American Society for Microbiology (1986).

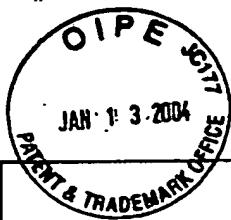
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WJ Schapell

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	AR	62	Chong, S., et al., "Single-column purification of free recombinant proteins using a self-cleavable affinity tag derived from a protein splicing element," Gene 192:271-281, Elsevier Science B.V. (June 1997).
	AS	62	Cigan, A.M., et al., "Mutational Analysis of the HIS4 Translational Initiator Region in <i>Saccharomyces cerevisiae</i> ," Mol. Cell. Biol. 8:2964-2975, American Society for Microbiology (1988).
	AT	62	Davis, C.R., et al., "Analysis of the Mechanisms of Action of the <i>Saccharomyces cerevisiae</i> Dominant Lethal <i>cdc42^{GLV}</i> and Dominant Negative <i>cdc42^{DL18A}</i> Mutations," J. Biol. Chem. 273:849-858, The American Society for Biochemistry and Molecular Biology, Inc. (January 1998).

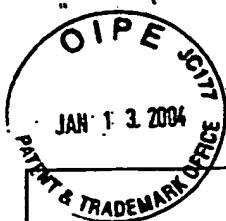
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Wajschleppell

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	AR	63	Derbyshire, V., and Belfort, M., "Lightning strikes twice: Intron-intein coincidence," Proc. Natl. Acad. Sci. USA 95:1356-1357, National Academy of Sciences (February 1998).
	AS	63	Dijkema, R., et al., "Cloning and expression of the chromosomal immune interferon gene of the rat," EMBO J. 4:761-767, IRL Press Limited (1985).
	AT	63	Flanagan, P.M., and Fennewald, M.A., "Analysis of Inhibitors of the Site-specific Recombination Reaction Mediated by Tn3 Resolvase," J. Mol. Biol. 206:295-304, Academic Press Limited (1989).

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mdschlapke

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AR	64	Gay, P., et al., "Positive Selection Procedure for Entrapment of Insertion Sequence Elements in Gram-Negative Bacteria," J. Bacteriol. 164:918-921, American Society for Microbiology (1985).
AS	64	Gay, P., et al., "Cloning Structural Gene <i>sacB</i> , Which Codes for Exoenzyme Levansucrase of <i>Bacillus subtilis</i> : Expression of the Gene in <i>Escherichia coli</i> ," J. Bacteriol. 153:1424-1431, American Society for Microbiology (1983).
AT	64	Gorman, C.M., et al., "The Rous sarcoma virus long terminal repeat is a strong promoter when introduced into a variety of eukaryotic cells by DNA-mediated transfection," Proc. Natl. Acad. Sci. USA 79:6777-6781, National Academy of Sciences (1982).

EXAMINER <i>WJ Schleppke</i>	DATE CONSIDERED 10-1-2005
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AR	65	Green, R., and Noller, H.F., "Ribosomes and Translation," Ann. Rev. Biochem. 66:679-716, Annual Reviews Inc. (July 1997).
AS	65	Grindley, N.D.F., and Kelley, W.S., "Effects of Different Alleles of the E. coli K12 polA Gene on the Replication of Non-transferring Plasmids," Molec. Gen. Genet. 143:311-318, Springer-Verlag (1976).
AT	65	Gronostajski, R.M., and Sadowski, P.D., "The FLP Protein of the 2-micron Plasmid of Yeast. Inter- and Intramolecular Reactions," J. Biol. Chem. 260:12328-12335, The American Society of Biological Chemists, Inc. (1985).

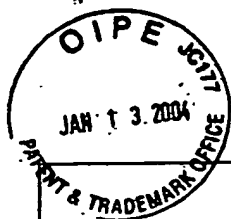
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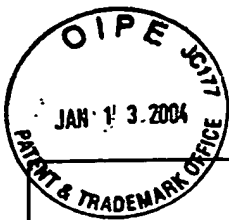
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AR	66	Haffter, P., and Bickle, T.A., "Enhancer-independent mutants of the <i>Cin</i> recombinase have a relaxed topological specificity," <i>EMBO J.</i> 7:3991-3996, IRL Press Limited (1988).	
AS	66	Henikoff, S., "Unidirectional digestion with exonuclease III creates targeted breakpoints for DNA sequencing," <i>Gene</i> 28:351-359, Elsevier Science (1984).	
AT	66	Hoess, R.H., and Abremski, K., "Interaction of the bacteriophage P1 recombinase Cre with the recombining site loxP," <i>Proc. Natl. Acad. Sci. USA</i> 81:1026-1029, National Academy of Sciences (1984).	

EXAMINER <i>W. J. O'Connell</i>	DATE CONSIDERED 10-9-2005
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	AR	67	Kaniga, K., et al., "A wide-host-range suicide vector for improving reverse genetics in Gram-negative bacteria: inactivation of the <i>blaA</i> gene of <i>Yersinia enterocolitica</i> ," <i>Gene</i> 109:137-141, Elsevier Science B.V. (1991).				
	AS	67	Kealey, J.T., et al., "Production of a polyketide natural product in nonpolyketide-producing prokaryotic and eukaryotic hosts," <i>Proc. Natl. Acad. Sci. USA</i> 95:505-509, National Academy of Sciences (January 1998).				
	AT	67	Kholodenko, B.N., et al., "Metabolic Design: How to Engineer a Living Cell to Desired Metabolite Concentrations and Fluxes," <i>Biotechnol. Bioeng.</i> 59:239-247, John Wiley & Sons, Inc. (July 1998).				

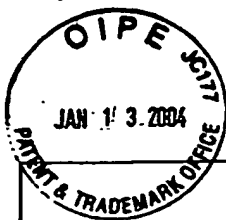
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	AR	68	Kim, D.W., "Use of the human elongation factor 1 α promoter as a versatile and efficient expression system," <i>Gene</i> 91:217-223, Elsevier Science B.V. (1990).
	AS	68	Kolb, A.F., and Siddell, S.G., "Genomic targeting with an MBP-Cre fusion protein," <i>Gene</i> 183:53-60, Elsevier Science B.V. (December 1996).
	AT	68	Kouprina, N., et al., "Rescue of Targeted Regions of Mammalian Chromosomes by in Vivo Recombination in Yeast," <i>Genome Res.</i> 8:666-672, Cold Spring Harbor Laboratory Press (June 1998).

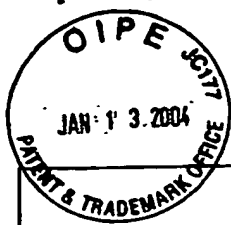
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	AR	69	Lake, J.A., "Evolving Ribosome Structure: Domains in Archaeobacteria, Eubacteria, Eocytes and Eukaryotes," Ann. Rev. Biochem. 54:507-530, Annual Reviews Inc. (1985).
	AS	69	Leslie, N.R., and Sherratt, D.J., "Site-specific recombination in the replication terminus region of <i>Escherichia coli</i> : functional replacement of dif," EMBO J. 14:1561-1570, Oxford University Press (April 1995).
	AT	69	Leung, L.L.K., "Application of Combinatorial Libraries and Protein Engineering to the Discovery of Novel Anti-Thrombotic Drugs," Thromb. Haemost. 74:373-376, F.K. Schattauer Verlagsgesellschaft mbH (July 1995).

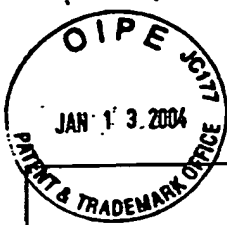
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1636

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	70	Lu, F., and Churchward, G., "Conjugative transposition: Tn916 intergrase contains two independent DNA binding domains that recognize different DNA sequences," EMBO J. 13:1541-1548, Oxford University Press (April 1994).
	AS	70	Mackie, G.A., "Nucleotide Sequence of the Gene for Ribosomal Protein S20 and Its Flanking Regions," J. Biol. Chem. 256:8077-8182, The American Society for Biological Chemists, Inc. (1981).
	AT	70	Malynn, B.A., et al., "The scid Defect Affects the Final Step of the Immunoglobulin VDJ Recombinase Mechanism," Cell 54:453-460, Cell Press (1988).

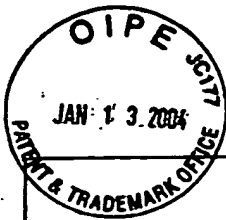
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	71	Maniatis, T., et al., "Regulation of Inducible and Tissue-Specific Gene Expression," <i>Science</i> 236:1237-1245, American Association for the Advancement of Science (1987).
AS	71	Mendiola, M.V., and de la Cruz, F., "Specificity of insertion of IS91, an insertion sequence present in α -haemolysin plasmids of <i>Escherichia coli</i> ," <i>Mol. Microbiol.</i> 3:979-984, Blackwell Scientific Publications (1989).
AT	71	Mercier, J., et al., "Structural and Functional Characterization of <i>tnpI</i> , a Recombinase Locus in Tn21 and Related β -Lactamase Transposons," <i>J. Bacteriol.</i> 172:3745-3757, American Society for Microbiology (1990).

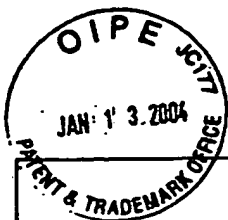
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	AM						Yes No
	AN						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	72	Metcalf, W.W., et al., "Conditionally Replicative and Conjugative Plasmids Carrying lacZ α for Cloning, Mutagenesis, and Allele Replacement in Bacteria," Plasmid 35:1-13, Academic Press, Inc. (January 1996).
	AS	72	Meyer-Leon, L., et al., "Purification of the FLP site-specific recombinase by affinity chromatography and re-examination of basic properties of the system," Nucl. Acids Res. 15:6469-6488, IRL Press Limited (1987).
	AT	72	Mizushima, S., and Nagat, S., "pEF-BOS, a powerful mammalian expression vector," Nucl. Acids Res. 18:5322, Oxford University Press (1990).

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W. J. Schlapko

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AR	73	Nomura, M., et al., "Regulation of the Synthesis of Ribosomes and Ribosomal Components," Ann. Rev. Biochem. 53:75-117, Annual Reviews Inc. (1984).
AS	73	Odell, J.T., et al., "Seed-Specific Gene Activation Mediated by the Cre/lox Site Specific Recombination System," Plant Physiol. 106:447-458, American Society of Plant Physiologists (October 1994).
AT	73	O'Gara, J.P., et al., "Identification and Molecular Genetic Analysis of Multiple Loci Contributing to High-Level Tellurite Resistance in Rhodobacter sphaeroides 2.4.1," Appl. Environ. Microbiol. 63:4713-4720, American Society for Microbiology (December 1997).

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W. J. Chappell

DATE CONSIDERED

10-9-2005

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AR	74	Pal, S.K., et al., "Pl Plasmid Replication. Role of Initiator Titration in Copy Number Control," J. Mol. Biol. 192:275-285, Academic Press Inc. (1986).
AS	74	Panke, S., et al., "Engineering of Quasi-Natural <i>Pseudomonas putida</i> Strains for Toluene Metabolism through and ortho-Cleavage Degradation Pathway," Appl. Environ. Microbiol. 64:748-751, American Society for Microbiology (February 1998).
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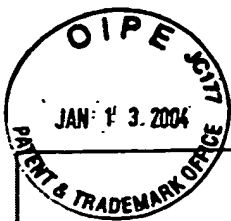
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MR. Schepke

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	AR	75	Powell, J., "Enhanced concatemer cloning—a modification to the SAGE (Serial Analysis of Gene Expression) technique," Nucl. Acids Res. 26:3445-3446, Oxford University Press (July 1998).
	AS	75	Prieto, M.A., et al., "Molecular Characterization of the 4-Hydroxyphenylacetate Catabolic Pathway of Escherichia coli W: Engineering a Mobile Aromatic Degradative Cluster," J. Bacteriol. 178:111-120, American Society for Microbiology (January 1996).
	AT	75	Qin, M., et al., "Site-specific cleavage of chromosomes in vitro through Cre-lox recombination," Nucl. Acids Res. 23:1923-1927, Oxford University Press (June 1995).

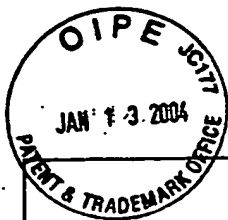
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	76	Sandhu, J.S., "Protein Engineering of Antibodies," Crit. Rev. Biotechnol. 12:437-462, CRC Press, Inc. (1992).
	AS	76	Sato, T., et al., "The <i>cisa</i> Cistron of <i>Bacillus subtilis</i> Sporulation Gene <i>spoIVC</i> Encodes a Protein Homologous to a Site-Specific Recombinase," J. Bacteriol. 172:1092-1098, American Society for Microbiology (1990).
	AT	76	Schild, D., et al., "Cloning of three human multifunctional <i>de novo</i> purine biosynthetic genes by functional complementation of yeast mutations," Proc. Natl. Acad. Sci. USA 87:2916-2920, National Academy of Sciences (1990).

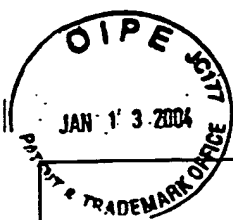
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	77	Skraly, F.A., et al., "Construction and Characterization of a 1,3-Propanediol Operon," Appl. Environ. Microbiol. 64:98-105, American Society for Microbiology (January 1998).
	AS	77	Stark, W.M., et al., "Site-Specific Recombination by Tn3 Resolvase: Topological Changes in the Forward and Reverse Reactions," Cell 58:779-790, Cell Press (1989).
	AT	77	Stassi, D.L., et al., "Ethyl-substituted erythromycin derivatives produced by directed metabolic engineering," Proc. Natl. Acad. Sci. USA 95:7305-7309 National Academy of Sciences (June 1998).

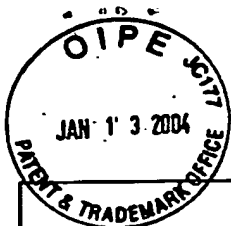
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	78	Stenzel, T.T., et al., "The Integration Host Factor of Escherichia coli Binds to Bent DNA at the Origin of Replication of the Plasmid pSC01," Cell 49:709-717, Cell Press (1987).
AS	78	Sugiura, S., et al., "Minimal Essential Origin of Plasmid pSC101 Replication: Requirement of a Region Downstream of Iterons," J. Bacteriol. 175:5993-6001, American Society for Microbiology (1993).
AT	78	Uetsuki, T., et al., "Isolation and Characterization of the Human Chromosomal Gene for Polypeptide Chain Elongation Factor-1 α ," J. Biol. Chem. 264:5791-5798, The American Society for Biochemistry and Molecular Biology, Inc. (1989).

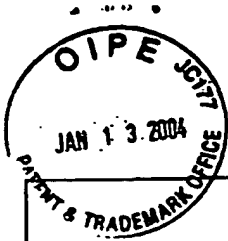
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AR	79	Voss, S.D., et al., "The role of enhancers in the regulation of cell-type-specific transcriptional control," Trends Biochem. Sci. 11:287-289, Elsevier Science (1986).
AS	79	Wittmann, H.G., et al., "Components of Bacterial Ribosomes," Ann. Rev. Biochem. 51:155-183, Annual Reviews Inc. (1982).
AT	79	Wittmann, H.G., et al., "Architecture of Prokaryotic Ribosomes," Ann. Rev. Biochem. 52:35-65, Annual Reviews Inc. (1983).

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	AN						Yes No
	AO						Yes No
	AP						Yes No

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	AR	80	Yoon, H., et al., "SSL1, a suppressor of a ~~W194~~ 5'-UTR stem-loop mutation, is essential for translation initiation and affects UV resistance in yeast," <i>Genes Dev.</i> 6:2463-2477, Cold Spring Harbor Laboratory Press (1992). DOCUMENT NOT PROVIDED
	AS		
	AT		

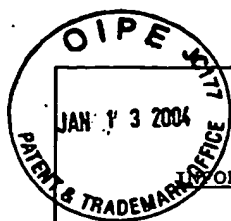
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WJ Jellepalli

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<i>was</i>	AA1	4,673,640	06/16/1987	Backman, K.C.	435	68	04/30/1984
	AB1	4,743,546	05/10/1998	Backman et al.	435	108	02/13/1985
	AC1	4,959,317	09/25/1990	Sauer B.L.	435	172.3	04/29/1987
	AD1	5,227,288	07/13/1993	Blattner, F.R.	435	6	10/01/1990
	AE1	5,354,668	10/11/1994	Auerbach, J.I.	435	91.1	10/15/1993
	AF1	5,434,066	07/18/1995	Bebee, R.L., et al.	435	172.3	03/15/1994
	AG1	5,470,727	11/28/1995	Mascarenhas et al.	435	172.3	12/21/1993
	AH1	5,591,609	01/07/1997	Auerbach, J.I.	435	91.2	02/03/1995
	AI1	5,614,389	03/25/1997	Auerbach, J.I.	435	91.2	09/26/1995
	AJ1	5,635,381	06/03/1997	Hooykaas et al.	435	172.3	01/20/1995
	AK1	5,658,772	08/19/1997	Odell et al.	435	172.3	07/27/1994

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<i>was</i>	AL1	EP 0 160 571 A2	11/06/1985	Europe			Yes No
<i>was</i>	AM1	EP 0 300 422	01/25/1989	Europe			Yes No
<i>was</i>	AN1	WO 91/02801	03/07/1991	WIPO			Yes No
<i>was</i>	AO1	WO 91/16427	10/31/1991	WIPO			Yes No
<i>was</i>	AP1	WO 92/20791	11/26/1992	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>was</i>	AR	1	Abremski, K., and Gottesman, S., "Purification of the Bacteriophage λ xis Gene Product Required for λ Excisive Recombination," <i>J. Biol. Chem.</i> 257(16):9658-9662 (1982).
<i>was</i>	AS	1	Abremski, K., and Hoess, R., "Bacteriophage P1 Site-specific Recombination - Purification and Properties of the Cre Recombinase Protein," <i>J. Biol. Chem.</i> 259:1509-1514 (1984).
<i>was</i>	AT	1	Abremski, K., et al., "Bacteriophage P1 Cre-loxP Site-specific Recombination: Site-specific DNA Topoisomerase Activity of the Cre Recombination Protein," <i>J. Biol. Chem.</i> 261(1):391-396 (1986).

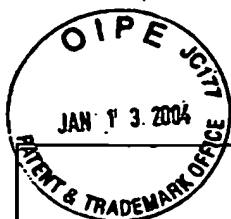
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Waf	AA2	5,677,170	10/14/1997	Devine et al.	435	20.1	03/02/1994
	AB2	5,677,177	10/14/1997	Wahl et al.	435	325	06/07/1995
	AC2	5,710,248	01/20/1998	Grose, C.F.	530	327	07/29/1996
	AD2	5,723,765	03/03/1998	Oliver et al.	800	208	06/07/1995
	AE2	5,733,733	03/31/1998	Auerbach, J.I.	435	6	02/01/1996
	AF2	5,733,743	03/31/1998	Johnson et al.	435	320.1	06/10/1996
	AG2	5,744,336	04/28/1998	Hodges et al.	435	172.3	03/08/1996
	AH2	5,766,891	06/16/1998	Shuman, S.	435	91.41	12/19/1994
	AI2	5,776,449	07/07/1998	Baum et al.	424	93.2	09/20/1996
	AJ2	5,830,707	11/03/1998	Bushman, F.D.	435	69.7	06/05/1995
	AK2	5,837,242	11/17/1998	Holliger et al.	424	136.1	05/14/1996

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
Waf	AL2	WO 93/15191	08/05/1993	WIPO			Yes No
Waf	AM2	WO 93/19172	09/30/1993	WIPO			Yes No
Waf	AN2	CA 2,141,412	02/17/1994	Canada			Yes No
Waf	AO2	WO 94/17176	08/04/1994	WIPO			Yes No
Waf	AP2	WO 97/06265	02/20/1997	WIPO			Yes No

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Waf	AR	2	Abremski, K., et al., "Studies on the Properties of P1 Site-Specific Recombination: Evidence for Topologically Unlinked Products Following Recombination," Cell 32:1301-1311 (1993).
Waf	AS	2	Adams, D. E., et al., "Cre-lox Recombination in Escherichia coli Cells: Mechanistic Differences from the in Vitro Reaction," J. Mol. Biol. 226:661-673 (1992).
Waf	AT	2	Andrews, B.J., et al., "The FLP Recombinase of the 2μ Circle DNA of Yeast: Interaction with Its Target Sequences," Cell 40:795-803 (1985).

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FORM PTO-1449

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ATTY. DOCKET NO.
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10/680,316APPLICANT
Hartley et al.FILING DATE
October 8, 2003GROUP
1636

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msj	AA3	5,843,772	12/01/1998	Devine, S.E., et al.	435	69.1	11/18/1994
	AB3	5,851,808	12/22/1998	Elledge et al.	435	172.3	02/28/1997
	AC3	5,858,657	01/12/1999	Winter et al.	435	6	06/07/1995
	AD3	5,871,907	02/16/1999	Winter et al.	435	6	03/31/1994
	AE3	5,874,259	02/23/1999	Szybalski, W.	435	91.1	11/21/1997
	AF3	5,888,732	03/30/1999	Hartley et al.	435	6	06/07/1996
	AG3	5,916,804	06/29/1999	Bushman, F.D.	435	325	04/17/1998
	AH3	5,919,676	07/06/1999	Graham et al.	435	172.3	06/07/1995
	AI3	5,928,914	07/27/1999	Leboulch et al.	435	172.3	11/05/1996
	AJ3	5,989,872	11/22/1999	Luo et al.	435	91.2	08/12/1997
	AK3	6,010,884	01/04/2000	Griffiths et al.	435	69.7	05/29/1996

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
msj	AL3	WO 97/09436	03/13/1997	WIPO			Yes No
msj	AM3	WO 97/25446	07/17/1997	WIPO			Yes No
msj	AN3	WO 97/32481	09/12/1997	WIPO			Yes No
msj	AO3	WO 98/10086	03/12/1998	WIPO			Yes No
msj	AP3	WO 99/10488	03/04/1999	WIPO			Yes No

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msj	AR	3	Andrews, B.J., et al., "Interaction of the FLP Recombinase of the <i>Saccharomyces cerevisiae</i> 2 μ m Plasmid with Mutated Target Sequences," <i>Mol. Cell. Biol.</i> 6:2482-2489 (1986).
	AS	3	Anton, M., and Graham, F.L., "Site-Specific Recombination Mediated by an Adenovirus Vector Expressing the Cre Recombinase Protein: a Molecular Switch for Control of Gene Expression," <i>J. Virol.</i> 69:4600-4606 (1995).
	AT	3	Araki, H., et al., "Site-specific Recombinase, R, Encoded by Yeast Plasmid pSR1," <i>J. Mol. Biol.</i> 225:25-37 (1992).

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Hartley et al.FILING DATE
October 8, 2003GROUP
1636

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was	AA4	6,063,627	06/16/2000	McVey et al.	435	440	02/25/1998
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

was	AR	4	Argos, P., et al., "The integrase family of site-specific recombinases: regional similarities and global diversity," <i>EMBO J.</i> 5(2):433-440 (1986).
	AS	4	Atlung, T., et al., "A versatile method for integration of genes and gene fusions into the λ attachment site of <i>Escherichia coli</i> ," <i>Gene</i> 107:11-17 (1991).
	AT	4	Ausubel, F.M., et al., "Maps of Plasmids pBR322 and pUC19," in <i>Current Protocols in Molecular Biology</i> , John Wiley & Sons, Inc., Boston, MA, (1995).

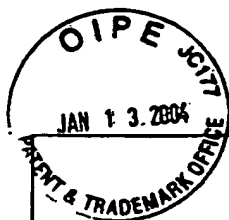
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>WLF</i>	AR	5	Ausubel, F.M., et al., "Mutagenesis by the Polymerase Chain reaction," in: <i>Current Protocols in Molecular Biology</i> , Boston: John Wiley & Sons, Inc., pp. 8.5.1-8.5.9 (1995).
<i>I</i>	AS	5	Babineau, D. et al., "The FLP Protein of the 2-micro Plasmid of Yeast," <i>J. Biol. Chem.</i> 260:12313-12391 (1985).
<i>I</i>	AT	5	Balakrishnan, R., et al., "A gene cassette for adapting <i>Escherichia coli</i> strains as hosts for att-Int-mediated rearrangement and p_A expression vectors," <i>Gene</i> 138:101-104 (January 1994).

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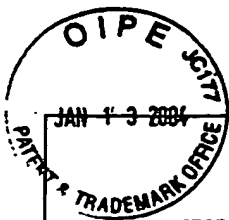
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	AO						Yes No
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<i>was</i>	AR	6	Bayley, C.C., et al., "Exchange of gene activity in transgenic plants catalyzed by the Cre-lox site specific recombination system," <i>Plant Mol. Biol.</i> 18:353-361 (1992).
<i>was</i>	AS	6	Bethke, B., and Saur, B., "Segmental genomic replacement by Cre-mediated recombination: genotoxic stress activation of the p53 promoter in single-copy transformants," <i>Nucl. Acids Res.</i> 25:2828-2834 (1997).
<i>was</i>	AT	6	Bernard, P., and Couturier, M., "Cell Killing by the F plasmid Ccdb Protein Involves Poisoning of DNA-topoisomerase II Complexes," <i>J. Mol. Biol.</i> 226:735-745 (1992).

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10/680,316APPLICANT
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October 8, 2003GROUP
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	AN						Yes No
	AO						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>was</i>	AR	2	Bernard, P., "Positive Selection of Recombinant DNA by CcdB," <i>BioTechniques</i> 21:320-323 (August 1996).
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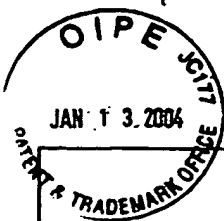
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FORM PTO-1449

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Hartley et al.FILING DATE
October 8, 2003GROUP
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	AO						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>WLF</i>	AR	8	Black, L.W., "In vitro packaging into phage T4 particles and specific recircularization of phage lambda DNAs," Gene 46:97-101 (1986).
	AS	8	Bloch, C.A., et al., "Purification of <i>Escherichia coli</i> Chromosomal Segments without Cloning," Biochem. Biophys. Res. Comm. 223:104-111 (1996).
	AT	8	Bochner, B. R., et al., "Positive Selection for Loss of Tetracycline Resistance," J. Bacteriol. 143:926-933 (1980).

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WLF/creaphall

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FORM PTO-1449

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Hartley et al.FILING DATE
October 8, 2003GROUP
1636

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>ma</i>	AR	2	Boyd, A. C., "Turbo cloning: a fast, efficient method for cloning PCR products and other blunt-ended DNA fragments into plasmids," <i>Nucl. Acids Res.</i> 21(4):817-821 (1993).
	AS	2	Broach, J. R., et al., "Recombination within the Yeast Plasmid 2 μ Circle is Site-Specific," <i>Cell</i> 29:227-234 (1982).
	AT	2	Brunelli, J. P. and Pall, M. L., "A Series of Yeast/ <i>Escherichia coli</i> λ Expression Vectors Designed for Directional Cloning of cDNAs and cre/lox-Mediated Plasmid Excision," <i>Yeast</i> 9:1309-1318 (1993).

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

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10/680,316APPLICANT
Hartley et al.FILING DATE
October 8, 2003GROUP
1636

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>maf</i>	AR	<u>10</u>	Brunelli, J.P., and Pall, M.L., "Lambda/Plasmid Vector Construction by In Vivo cre/lox-Mediated Recombination," <i>BioTechniques</i> 16(6):1061-1064 (June 1994).
<i>maf</i>	AS	<u>10</u>	Bubeck, P., et al., "Rapid cloning by homologous recombination in vivo," <i>Nucl. Acids Res.</i> 21:3601-3602 (1993).
<i>maf</i>	AT	<u>10</u>	Buchholz, F., et al., "A simple assay to determine the functionality of Cre or FLP recombination targets in genomic manipulation constructs," <i>Nucl. Acids Res.</i> 24(15):3118-3119 (1996).

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<i>was</i>	AR	<u>11</u>	Buchholz, F., et al., "Different thermostabilities of FLP and Cre recombinases: implications for applied site-specific recombination," Nucl. Acids Res. 24(21):4256-4262 (1996).
	AS	<u>11</u>	Bushman, W., et al., "Control of Directionality in Lambda Site Specific Recombination," Science 230:906-911 (1985).
	AT	<u>11</u>	Campbell, A. M., "Chromosomal Insertion Sites for Phages and Plasmids," J. Bacteriol. 174(23):7495-7499 (1992).

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	AO						Yes No
	AP						Yes No

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<i>WJF</i>	AR	<u>12</u>	Chapin, SJ et al., "Differential expression of alternatively spliced forms of MAP4: a repertoire of structurally different microtubule-binding domains," Biochem. 34:2289-2301 (1995).
	AS	<u>12</u>	Chatterjee, P.K., and Coren, J.S., "Isolating large nested deletions in bacterial and P1 artificial chromosomes by <i>in vivo</i> P1 packaging of products of Cre-catalysed recombination between the endogenous and a transposed loxP site," Nucl. Acids Res. 25:2205-2212 (1997).
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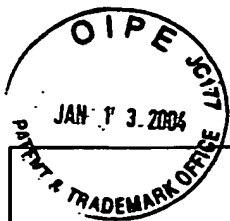
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>WJ</i>	AR	<u>13</u>	Cox, M.M., "The FLP protein of the yeast 2- μ m plasmid: Expression of a eukaryotic genetic recombination system in <i>Escherichia coli</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 80:4223-4227 (1983).
<i> </i>	AS	<u>13</u>	Dale, E. C. and Ow, D. W., "Intra- and intermolecular site-specific recombination in plant cells mediated by bacteriophage P1 recombinase," <i>Gene</i> 91:79-85 (1990).
<i> </i>	AT	<u>13</u>	Dale, E. C. and Ow, D. W., "Gene transfer with subsequent removal of the selection gene from the host genome," <i>Proc. Natl. Acad. Sci. USA</i> 88:10558-10562 (1991).

EXAMINER

WJ Schlapke

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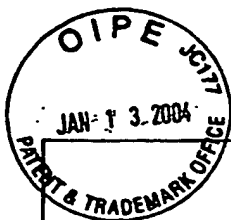
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	AN						Yes No
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ma	AR	14	Dang, D. T. and Perrimon, N., "Use of a Yeast Site-Specific Recombinase to Generate Embryonic Mosaics in <i>Drosophila</i> ," <i>Develop. Genetics</i> 13:367-375 (1992).
I	AS	14	Degryse, E., "In vivo intermolecular recombination in <i>Escherichia coli</i> : application to plasmid constructions," <i>Gene</i> 170:45-50 (1996).
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MAJ	AR	15	Diederich, L., et al., "New Cloning Vectors for Integration into the λ Attachment Site attB of the <i>Escherichia coli</i> Chromosome," <i>Plasmid</i> 28:14-24 (1992)
	AS	15	Dymecki, S. M., "A modular set of <i>Flp</i> , <i>FRT</i> and <i>lacZ</i> fusion vectors for manipulating genes by site-specific recombination," <i>Gene</i> 171:197-201 (June 1996).
	AT	15	Elledge, S. J., et al., " λ YES: A multifunctional cDNA expression vector for the isolation of genes by complementation of yeast and <i>Escherichia coli</i> mutations," <i>Proc. Natl. Acad. Sci. USA</i> 88:1731-1735 (1991).

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MAJ/ellapholl

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10-9-2005

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0942.285000M/BJD/JKMAPPLICATION NO.
10/680,316APPLICANT
Hartley et al.FILING DATE
October 8, 2003GROUP
1636

U.S. PATENT DOCUMENTS

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>Wef</i>	AR	<u>16</u>	Feil, R., et al., "Regulation of Cre Recombinase Activity by Mutated Estrogen Receptor Ligand-Binding Domains," <i>Biochem. Biophys. Res. Comm.</i> 237:752-757 (1997).
	AS	<u>16</u>	Ferguson, J., et al., "Construction and characterization of three yeast- <i>Escherichia coli</i> shuttle vectors designed for rapid subcloning of yeast genes on small DNA fragments," <i>Gene</i> 16:191-197 (1981).
	AT	<u>16</u>	Filutowicz, M., et al., "Purification of the <i>Escherichia coli</i> integration host factor (IHF) in one chromatographic step," <i>Gene</i> 147:149-150 (September 1994).

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<i>msj</i>	AR	<u>17</u>	Fiering, S., et al., "An 'in-out' strategy using gene targeting and FLP recombinase for the functional dissection of complex DNA regulatory elements: Analysis of the β -globin locus control region," <i>Proc. Natl. Acad. Sci. USA</i> 90:8469-8473 (1993).
	AS	<u>17</u>	Francia, M.V., et al., "Gene Integration in the <i>Escherichia coli</i> Chromosome Mediated by Tn21 Integrase (Int21)," <i>J. Bacteriol.</i> 178:894-898 (February 1996).
<i>msj</i>	AT	<u>17</u>	Fukushige, S. and Sauer, B., "Genomic targeting with a positive-selection lox integration vector allows highly reproducible gene expression in mammalian cells," <i>Proc. Natl. Acad. Sci. USA</i> 89:7905-7909 (1992).

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FORM PTO-1449

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10/680,316APPLICANT
Hartley et al.FILING DATE
October 8, 2003GROUP
1636

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	AS	<u>18</u>	Glasgow, A.C., et al., "DNA-binding Properties of the Hin Recombinase," <i>J. Biol. Chem.</i> 264:10072-10082 (1989).
	AT	<u>18</u>	Golic, K. G. and Lindquist, S., "The FLP Recombinase of Yeast Catalyzes Site-Specific Recombination in the Drosophila Genome," <i>Cell</i> 59:499-509 (1989).

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<i>Waf</i>	AR	19	Gu, et al., "Deletion of a DNA polymerase beta gene segment in T celss using cell type-specific gene targeting," <i>Science</i> 265:103-106 (1994).
<i>Waf</i>	AS	19	Guo, F., et al., "Asymmetric DNA bending in the Cre-loxP site-specific recombination synapse," <i>Proc. Natl. Acad. Sci. USA</i> 96:7143-7148 (1999).
<i>Waf</i>	AT	19	Hardy, S., et al., "Construction of Adenovirus Vectors through Cre-lox Recombination," <i>J. Virol.</i> 71(3):1842-1849 (1997).

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<i>was</i>	AR	20	Hasan, N., and Szybalski, W., "Control of cloned gene expression by promoter inversion in vivo: construction of improved vectors with a multiple cloning site and the P_{lac} promoter," Gene 56:145-151 (1987).
<i>was</i>	AS	20	Hasan, N., et al., "Escherichia coli genome targeting, I. Cre-lox-mediated in vitro generation of ori plasmids and their in vivo chromosomal integration and retrieval," Gene 150:51-56 (December 1994).
<i>was</i>	AT	20	Hashimoto-Gotoh, T., et al., "Improved vector, pHS664, for direct streptomycin-resistance selection: cDNA cloning with G:C-tailing procedure and subcloning of double-digested DNA fragments," Gene 41:125-128 (1986).

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Hartley et al.FILING DATE
October 8, 2003GROUP
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<i>maf</i>	AR	21	Hoekstra, M. F., et al., "Shuttle Mutagenesis: Bacterial Transposons for Genetic Manipulations in Yeast," Meth. Enzymol. 194:329-342 (1991).
<i>maf</i>	AS	21	Hoess, R.H., et al., "P1 site-specific recombination: Nucleotide sequence of the recombining sites," Proc. Natl. Acad. Sci. USA 79:3398-3402 (1982).
<i>maf</i>	AT	21	Hoess, R.H., et al., "Mechanism of Strand Cleavage and Exchange in the Cre-lox Site-specific Recombination System," J. Mol. Biol. 181:351-362 (1985).

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FORM PTO-1449

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10/680,316APPLICANT
Hartley et al.FILING DATE
October 8, 2003GROUP
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>maf</i>	AR	<u>22</u>	Hoess, R., et al., "Formation of small circular DNA molecules via an in vitro site-specific recombination system," <i>Gene</i> 40:325-329 (1985).
<i>maf</i>	AS	<u>22</u>	Hoess, R. H., et al., "The role of the loxP spacer region in P1 site-specific recombination," <i>Nucl. Acids Res.</i> 14(5):2287-2300 (1986).
<i>maf</i>	AT	<u>22</u>	Hoess, R. H., and Abremski, K., "The Cre-lox Recombination System," in: <i>Nucleic Acids and Molecular Biology</i> , Vol. 4, ed. by Eckstein, F. and D. M. J. Lilley, Springer-Verlag, Berlin, pp 99-109 (1990).

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maf/chap-k-u

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10-7-2005

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FORM PTO-1449

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0942.285000M/BJD/JKMAPPLICATION NO.
10/680,316APPLICANT
Hartley et al.FILING DATE
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>WLF</i>	AR	<u>23</u>	Holt, C.L., and May, G.S., "A novel phage λ replacement Cre-lox vector that has automatic subcloning capabilities," <i>Gene</i> 133:95-97 (1993).
<i>WLF</i>	AS	<u>23</u>	Hoogenboom, H.R., et al., "Multi-subunit proteins on the surface of filamentous phage: methodologies for displaying antibody (Fab) heavy and light chains," <i>Nucl. Acids Res.</i> 19:4133-4137 (1991).
<i>WLF</i>	AT	<u>23</u>	Jaffé, A., et al., "Effects of the ccd Function of the F Plasmid on Bacterial Growth," <i>J. Bacteriol.</i> 163:841-849 (1985).

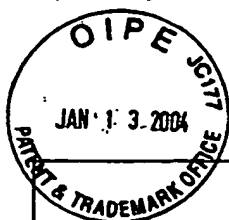
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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

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0942.285000M/BJD/JKMAPPLICATION NO.
10/680,316APPLICANT
Hartley et al.FILING DATE
October 8, 2003GROUP
1636

U.S. PATENT DOCUMENTS

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<i>WJ</i>	AR	<u>24</u>	Kanaar, R., et al., "Gin-Mediated Recombination of Catenated and Knotted DNA Substrates: Implications for the Mechanism of Interaction Between Cis-Acting Sites," Cell 58:147-159 (1989).
	AS	<u>24</u>	Kilby, N. J., et al., "Site-specific recombinases: tools for genome engineering," Trends in Genetics 9:413-421 (1993).
	AT	<u>24</u>	Kim, et al., "Lambda Int protein between higher complexes at two distant chromosomal loci attL and attR," Science 256:198-263 (1992).

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Hartley et al.FILING DATE
October 8, 2003GROUP
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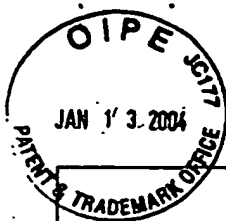
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<i>WLF</i>	AR	<u>25</u>	Kozak, M., "Comparison of initiation of protein synthesis in procaryotes, eucaryotes, and organelles," <i>Microbiol. Rev.</i> 47:1-45 (1983).
<i>WLF</i>	AS	<u>25</u>	Kozak, M., "An analysis of 5'-noncoding sequences from 699 vertebrate messenger RNAs," <i>Nucl. Acids res.</i> 15:8125-8132 (1987).
<i>WLF</i>	AT	<u>25</u>	Kozak, M., "Structural features in eukaryotic mRNAs that modulate the initiation of translation," <i>J. Biol. Chem</i> 266:19867-19870 (1991).

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FORM PTO-1449

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10/680,316APPLICANT
Hartley et al.FILING DATE
October 8, 2003GROUP
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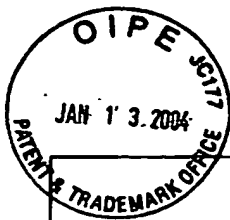
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	AS	26	Lafontaine, D., and Tollervey, D., "One-step PCR mediated strategy for the construction of conditionally expressed and epitope tagged yeast proteins," <i>Nucl. Acids Res.</i> 24:2469-2472 (1996).
	AT	26	Lakso, M., et al., "Targeted oncogene activation by site-specific recombination in transgenic mice," <i>Proc. Natl. Acad. Sci. USA</i> 89:6232-6236 (1992).

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Hartley et al.FILING DATE
October 8, 2003GROUP
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<i>was</i>	AT	<u>28</u>	Leong, J.M., et al., "Generation of single base-pair deletions, insertions, and substitutions by a site-specific recombination system," <i>Proc. Natl. Acad. Sci. USA</i> 82:6990-6994 (1985).

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	AS	29	Lorbach, E. et al., "Site-specific Recombination in Human Cells Catalyzed by Phage λ Integrase Mutants," J. Mol. Biol. 296:1175-1181 (March 2000).
	AT	29	Luckow, V. A., et al., "Efficient Generation of Infectious Recombinant Baculoviruses by Site-Specific Transposon-Mediated Insertion of Foreign Genes into a Baculovirus Genome Propagated in <i>Escherichia coli</i> ," J. Virol. 67(8):4566-4579 (1993).

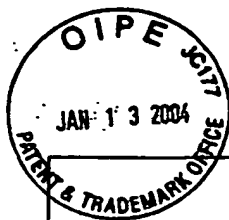
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WJL/Chapman

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10-7-2005

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FORM PTO-1449

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October 8, 2003GROUP
1636

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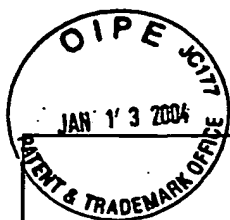
	AR	30	Maeser, S., and Kahmann, R., "The Gin recombinase of phage Mu can catalyze site-specific recombination in plant protoplasts," <i>Mol. Gen. Genet.</i> 230:170-176 (1991).
	AS	30	Mahillon, J., et al., "IS231 and other <i>Bacillus thuringiensis</i> transposable elements: a review," <i>Genetica</i> 93:13-26 (November 1994).
	AT	30	Matsuzaki, H., et al., "Chromosome Engineering in <i>Saccharomyces cerevisiae</i> by Using a Site-Specific Recombination System of a Yeast Plasmid," <i>J. Bacteriol.</i> 172:610-618 (1990).

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was	AR	31	McCarthy, JE and Brimacombe, R., "Prokaryotic translation: the interactive pathway leading to initiation," Trends Genet 10:402-407 (November 1994).
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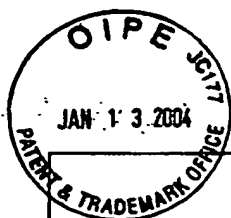
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<i>WJL</i>	AR	32	Mizuuchi, K., and Mizuuchi, K., "Integrative Recombination of Bacteriophage λ : In Vitro Study of the Intermolecular Reaction," Cold Spring Harb. Symp. Quant. Biol. 43:1111-1114 (1979).
<i> </i>	AS	32	Mizuuchi, M. and Mizuuchi, K., "The extent of DNA sequence required for a functional bacterial attachment site of phage lambda," Nucl. Acids Res. 13:1193-1208 (1985).
<i> </i>	AT	32	Mozo, T. and Hooykaas, P. J. J., "Design of a novel system for the construction of vectors for Agrobacterium-mediated plant transformation," Mol. Gen. Genet. 236:1-7 (1992).

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<i>waf</i>	AR	<u>33</u>	Mullins, L.J., et al., "Efficient Cre-lox linearisation of BACs: applications to physical mapping and generation of transgenic animals," Nucl. Acids Res. 25(12):2539-2540 (1997).
<i>waf</i>	AS	<u>33</u>	Nagaraja, R. and Weisberg, R. A., "Specificity Determinants in the Attachment Sites of Bacteriophages HK022 and λ ," J. Bacteriol. 172:6540-6550 (1990).
<i>waf</i>	AT	<u>33</u>	Nash, H.A., "Integrative Recombination of Bacteriophage Lambda DNA In Vitro," Proc. Natl. Acad. Sci. USA 72:1072-1076 (1975).

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<i>maf</i>	AR	34	Nash, H.A., and Robertson, CA., "Purification and properties of the Escherichia coli protein factor required for lambda integrative recombination," <i>J. Biol. Chem.</i> 256:9246-9253 (1981).
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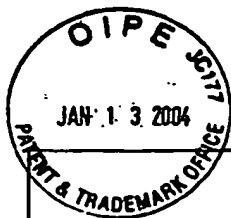
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maf/chlephor

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Hartley et al.FILING DATE
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<i>maf</i>	AR	<u>35</u>	Nash, H. and C.A. Robertson, "Heteroduplex substrates for bacteriophage lambda site-specific recombination: cleavage and strand transfer products," <i>EMBO J.</i> 8:3523-3533. (1989).
<i>maf</i>	AS	<u>35</u>	Nash, H.A., "Bending and supercoiling of DNA at the attachment site of bacteriophage lambda," <i>Trends Biochem. Sci</i> 15:222-227 (1990).
<i>maf</i>	AT	<u>35</u>	Numrych, T. E., et al., "A comparison of the effects of single-base and triple-base changes in the integrase arm-type binding sites on the site-specific recombination of bacteriophage lambda," <i>Nucl. Acids Res.</i> 18:3953-3959 (1990).

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maf *mcpholl*

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<i>msf</i> ↓	AR	<u>36</u>	Numrych, T.E., et al., "Characterization of the bacteriophage lambda excisionase (Xis) protein: the C-terminus is required for Xis-integrase cooperativity but not for DNA binding," <i>EMBO J.</i> 11(10):3797-3806 (1992).
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msf/chlapko

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<i>was</i>	AR	<u>37</u>	Oberto, J., et al., "A segment of the phage HK022 chromosome is a mosaic of other lambdoid chromosomes," <i>Nucl. Acids Res.</i> 22(3):354-356 (February 1994).
<i>was</i>	AS	<u>37</u>	Oliner, J.D., et al., "In vivo cloning of PCR products in <i>E. coli</i> ," <i>Nucl. Acids Res.</i> 21:5192-5197 (1993).
<i>was</i>	AT	<u>37</u>	Orban, P. C., et al., "Tissue- and site-specific DNA recombination in transgenic mice," <i>Proc. Natl. Acad. Sci. USA</i> 89:6861-6865 (1992).

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>Waf</i>	AR	<u>38</u>	Osborne, B.I., et al., "A system for insertional mutagenesis and chromosomal rearrangement using the Ds transposon and Cre-lox," <i>Plant J.</i> 7:687-701 (1995).
<i> </i>	AS	<u>38</u>	Padgett, K. A. and Sorge, J. A., "Creating seamless junctions independent of restriction sites in PCR cloning," <i>Gene</i> 168:31-35 (February 1996).
<i>+</i>	AT	<u>38</u>	Palazzolo, M. J., et al., "Phage lambda cDNA cloning vectors for subtractive hybridization, fusion-protein synthesis and Cre-loxP automatic plasmid subcloning," <i>Gene</i> 88:25-36 (1990).

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<i>Waf</i>	AR	39	Pan, G., et al., "Ligation of Synthetic Activated DNA Substrates by Site-specific Recombinases and Topoisomerase I," <i>J. Biol. Chem.</i> 268(5):3683-3689 (1993).				
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<i>Waf</i>	AT	39	Peakman, T. C., et al., "Highly efficient generation of recombinant baculoviruses by enzymatically mediated site-specific in vitro recombination," <i>Nucl. Acids Res.</i> 20:495-500 (1992).				

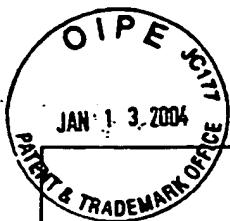
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<i>Waf</i>	AR	<u>40</u>	Peredelchuk, M.Y., and Bennett, G.N., "A method for construction of <i>E. coli</i> strains with multiple DNA insertions in the chromosome," <i>Gene</i> 187:231-238 (1997).
<i>Waf</i>	AS	<u>40</u>	Pichel, J. G., et al., "Timing of SV40 oncogene activation by site-specific recombination determines subsequent tumor progression during murine lens development," <i>Gene</i> 8:3333-3342 (1993).
<i>Waf</i>	AT	<u>40</u>	Pierce, J. C., et al., "A positive selection vector for cloning high molecular weight DNA by the bacteriophage P1 system: Improved cloning efficacy," <i>Proc. Natl. Acad. Sci. USA</i> 89:2056-2060 (1992).

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<i>was</i>	AR	41	Podhajska, A. J., et al., "Control of cloned gene expression by promoter inversion in vivo: construction of the heat-pulse-activated att-nutL-p-att-N module," <i>Gene</i> 40:163-168 (1985).
<i>was</i>	AS	41	Pósfai, G., et al., "In vivo excision and amplification of large segments of the <i>Escherichia coli</i> genome," <i>Nucl. Acids Res.</i> 22(12):2392-2398 (June 1994).
<i>was</i>	AT	41	Prasad, P. V., et al., "Substrate Recognition by the 2 μ m Circle Site-Specific Recombinase: Effect of Mutations within the Symmetry Elements of the Minimal Substrate," <i>Mol. Cell. Biol.</i> 6:4329-4334 (1986).

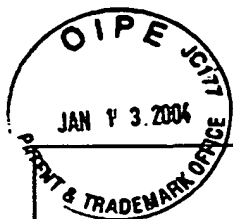
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waschellapohl

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<i>may</i>	AS	<u>42</u>	Reed, R.R., "Transposon-Mediated Site-Specific Recombination: A Defined in Vitro System," Cell 25:713-719 (1981).
<i>may</i>	AT	<u>42</u>	Reed, R.R. and N.D. Grindley, "Transposon-Mediated Site-Specific Recombination in Vitro: DNA Cleavage and Protein-DNA Linkage at the Recombination Site," Cell. 25:721-728 (1981).

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>was</i>	AR	<u>43</u>	Richet, E., et al., "The Interaction of Recombination Proteins with Supercoiled DNA: Defining the Role of Supercoiling in Lambda Integrative Recombination," Cell 46:1011-1021 (1986).
<i>I</i>	AS	<u>43</u>	Richet, E., et al., "Synapsis of Attachment Sites during Lambda Integrative Recombination Involves Capture of a Naked DNA by a Protein-DNA Complex," Cell 52:9-17 (1988).
	AT	<u>43</u>	Sadowski, P., "Site-Specific Recombinases: Changing Partners and Doing the Twist," J. Bacteriol. 165(2):341-347 (1986).

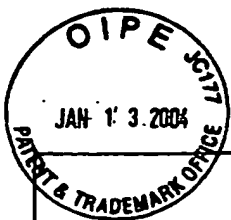
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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
0942.285000M/BJD/JKMAPPLICATION NO.
10/680,316APPLICANT
Hartley et al.FILING DATE
October 8, 2003GROUP
1636

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	AP						Yes No

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<i>was</i>	AR	44	Sadowski, PD, "The F1p recombinase of the 2-microns plasmid of Saccharomyces cerevisiae," Prog. Nucl. Acid Res. Mol. Biol. 51:53-91 (1995).
<i>was</i>	AS	44	Sauer, B., et al., "Site-specific insertion of DNA into a pseudorabies virus vector," Proc. Natl. Acad. Sci. USA 84:9108-9112 (1987).
<i>was</i>	AT	44	Sauer, B., "Functional Expression of the cre-lox Site-Specific Recombination System in the Yeast Saccharomyces cerevisiae," Mol. Cell. Biol. 7:2087-2096 (1987).

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Hartley et al.FILING DATE
October 8, 2003GROUP
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	AO						Yes No
	AP						Yes No

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<i>way</i>	AR	<u>45</u>	Sauer, B. and Henderson, N., "The cyclization of linear DNA in <i>Escherichia coli</i> by site-specific recombination," <i>Gene</i> 70:331-341 (1988).
<i>way</i>	AS	<u>45</u>	Sauer, B. and Henderson, N., "Cre-stimulated recombination at loxP-containing DNA sequences placed into the mammalian genome," <i>Nucl. Acids Res.</i> 17:147-161 (1989).
<i>way</i>	AT	<u>45</u>	Sauer, B., "Manipulation of Transgenes by Site-Specific Recombination: Use of Cre Recombinase," <i>Meth. Enzymol.</i> 225:890-900 (1993).

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

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10/680,316APPLICANT
Hartley et al.FILING DATE
October 8, 2003GROUP
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<i>was</i>	AR	<u>46</u>	Sauer, B., "Site-specific recombination: developments and applications," Curr. Op. Biotechnol. 5:521-527 (October 1994).
<i>was</i>	AS	<u>46</u>	Sauer, B., "Multiplex Cre/lox recombination permits selective site-specific DNA targeting to both a natural and an engineered site in the yeast genome," Nucl. Acids Res. 24(23):4608-4613 (1996).
<i>was</i>	AT	<u>46</u>	Sauer, B., "Inducible gene targeting in mice using the Cre/lox system," Methods 14:381-392 (April 1998).

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FORM PTO-1449

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10/680,316APPLICANT
Hartley et al.FILING DATE
October 8, 2003GROUP
1636

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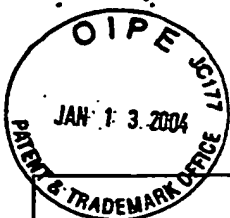
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>Waf</i>	AR	<u>47</u>	Schindelbauer, D., and Cooke, H.J., "Efficient combination of large DNA in vitro: in gel site specific recombination (IGSSR) of PAC fragments containing α satellite DNA and the human HPRT gene locus," <i>Nucl. Acids Res.</i> 25(11):2241-2243 (1997).
<i>Waf</i>	AS	<u>47</u>	Schlake, T., and Bode, J., "Use of Mutated FLP Recognition Target (FRT) Sites for the Exchange of Expression Cassettes at Defined Chromosomal Loci," <i>Biochemistry</i> 33:12746-12751 (November 1994).
<i>Waf</i>	AT	<u>47</u>	Segall, A. M. and Nash, H. A., "Synaptic intermediates in bacteriophage lambda site-specific recombination: integrase can align pairs of attachment sites," <i>EMBO J.</i> 12:4567-4576 (1993).

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October 8, 2003GROUP
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WJF	AR	48	Segall, A.M., and Nash, H.A., "Architectural flexibility in lambda site-specific recombination: three alternate conformations channel the attL site into three distinct pathways," <i>Genes to Cells</i> 1:453-463 (1996).
WJF	AS	48	Senecoff, J.F., et al., "DNA Recognition by the FLP Recombinase of the Yeast 2 μ Plasmid - A Mutational Analysis of the FLP Binding Site," <i>J. Mol. Biol.</i> 201:405-421 (1988).
WJF	AT	48	Sheffield, P. et al., "Overcoming expression and purification problems of RhoGDI using a family of "parallel" expression vectors," <i>Protein Expr. Purific.</i> 15:34-39 (1999).

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FORM PTO-1449

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Hartley et al.FILING DATE
October 8, 2003GROUP
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<i>Waf</i>	AR	<u>49</u>	Shuman, S., "Recombination mediated by vaccinia virus DNA topoisomerase I in <i>Escherichia coli</i> is sequence specific," <i>Proc. Natl. Acad. Sci. USA</i> 88:10104-10108 (1991).
<i>Waf</i>	AS	<u>49</u>	Sizemore, C., et al., "Quantitative analysis of Tn10 Tet repressor binding to a complete set of tet operator mutants," <i>Nucl. Acids Res.</i> 18(10):2875-2880 (1990).
<i>Waf</i>	AT	<u>49</u>	Smith, A. J. H., et al., "A site-directed chromosomal translocation induced in embryonic stem cells by Cre-loxP recombination," <i>Nat. Gen.</i> 9:376-385 (April 1995).

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FORM PTO-1449

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10/680,316APPLICANT
Hartley et al.FILING DATE
October 8, 2003GROUP
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	AP						Yes No

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<i>maf</i>	AR	50	Snaith, M.R., et al., "Multiple cloning sites carrying loxP and FRT recognition sites for the Cre and Flp site-specific recombinases," Gene 166:173-174 (December 1, 1995).
<i>maf</i>	AS	50	Spengler, S.J., et al., "The Stereostructure of Knots and Catenanes Produced by Phage λ Integrative Recombination: Implications for Mechanism and DNA Structure," Cell 42:325-334 (1985).
<i>maf</i>	AT	50	Sternberg, N., et al., "Site-specific Recombination and Its Role in the Life Cycle of Bacteriophage P1," Cold Spring Harbor Symp. Quant. Biol. 45:297-309 (1981).

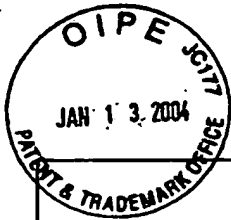
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10-9-2015

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

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0942.285000M/BJD/JKMAPPLICATION NO.
10/680,316APPLICANT
Hartley et al.FILING DATE
October 8, 2003GROUP
1636

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>Waf</i>	AR	<u>51</u>	Sternberg, N., et al., "Bacteriophage P1 cre Gene and its Regulatory Region," J. Mol. Biol. 187:197-212 (1986).
<i>Waf</i>	AS	<u>51</u>	Sternberg, N., "Bacteriophage P1 cloning system for the isolation, amplification, and recovery of DNA fragments as large as 100 kilobase pairs," Proc. Natl. Acad. Sci. USA 87:103-107 (1990).
<i>Waf</i>	AT	<u>51</u>	Storck, T., et al., "Rapid construction in yeast of complex targeting vectors for gene manipulation in the mouse," Nucl. Acids Res. 24:4594-4596 (1996).

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Waf/Chapman

DATE CONSIDERED

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
0942.285000M/BJD/JKMAPPLICATION NO.
10/680,316APPLICANT
Hartley et al.FILING DATE
October 8, 2003GROUP
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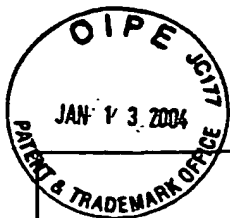
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<i>waf</i>	AR	52	Strathmann, M., et al., "Transposon-facilitated DNA sequencing," <i>Proc. Natl. Acad. Sci. USA</i> 88:1247-1250 (1991).
<i>waf</i>	AS	52	Thompson, J. F., et al., "Mutations in an Integration Host Factor-Binding Site: Effect on Lambda Site-Specific Recombination and Regulatory Implications," <i>J. Bacteriol.</i> 168:1343-1351 (1986).
<i>waf</i>	AT	52	Thompson, J.F., et al., "Helical-repeat dependence of integrative recombination of bacteriophage λ : Role of the P1 and H1 protein binding sites," <i>Proc. Natl. Acad. Sci. USA</i> 85:6323-6327 (1988).

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FORM PTO-1449

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Hartley et al.FILING DATE
October 8, 2003GROUP
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	AS	53	Tsurushita, N., et al., "Phage display vectors for in vivo recombination of immunoglobulin heavy and light chain genes to make large combinatorial libraries," Gene 172:59-63 (1996).
	AT	53	Vanin, E.P., et al., "Development of High-Titer Retroviral Producer Cell Lines by Using Cre-Mediated Recombination," J. Virol. 71:7820-7826 (1997).

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FORM PTO-1449

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Hartley et al.FILING DATE
October 8, 2003GROUP
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<i>WLF</i>	AR	<u>54</u>	Waterhouse, P., et al., "Combinatorial infection and in vivo recombination: a strategy for making large phage antibody repertoires," <i>Nucl. Acids Res.</i> 21(9):2265-2266 (1993).
<i>WLF</i>	AS	<u>54</u>	Wang, G., et al., "pDUAL: A transposon-based cosmid cloning vector for generating nested deletions and DNA sequencing templates in vivo," <i>Proc. Natl. Acad. Sci. USA</i> 90:7874-7878 (1993).
<i>WLF</i>	AT	<u>34</u>	Wasserman, S.A., et al., "The helical repeat of double-stranded DNA varies as a function of catenation and supercoiling," <i>Nature</i> 334:448-450 (1988).

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FORM PTO-1449
INFORMATION DISCLOSURE STATEMENT

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APPLICANT
Hartley et al.

FILING DATE
October 8, 2003

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WLF	AR	55	Wierzbicki, A., et al., "A Mutational Analysis of the Bacteriophage P1 Recombinase Cre," J. Mol. Biol. 195:785-794 (1987).				
WLF	AS	55	Weisberg, R. A., and Landy, A., "Site-specific Recombination in Phage Lambda," in: "Lambda II," Hendrix, R. W. et al., eds., Cold Spring Harbor Laboratory Press, Cold Spring Harbor, N. Y., pp. 211-250 (1983).				
WLF	AT	55	Wild, J., et al., "A broad-host-range in vivo pop-out and amplification system for generating large quantities of 50- to 100-kb genomic fragments for direct DNA sequencing," Gene 179:181-188 (1996).				

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FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	0942.285000M/BJD/JKM	10/680,316
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<i>Waf</i>	AR	<u>56</u>	Wild, J., et al., "Targeting and retrofitting pre-existing libraries of transposon insertions with FRT and oriV elements for in-vivo generation of large quantities of any genomic fragment," <i>Gene</i> 223:55-66 (1998).
<i>Waf</i>	AS	<u>56</u>	Winoto, A., et al., "Directional Control of Site-specific Recombination by Bacteriophage λ ," <i>J. Mol. Biol.</i> 192:677-680 (1986).
<i>Waf</i>	AT	<u>56</u>	Yang, W., and Mizuuchi, K., "Site-specific recombination in plane view," <i>Structure</i> 5:1401-1406 (1997).

EXAMINER <i>Waf</i>	DATE CONSIDERED 10-9-2005
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FORM PTO-1449

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APPLICANT

Hartley et al.

FILING DATE

October 8, 2003

GROUP

1636

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>WLF</i>	AR	<u>57</u>	Yanisch-Perron, C., et al., "Improved M13 phage cloning vectors and host strains: nucleotide sequences of the M13mp18 and pUC19 vectors," <i>Gene</i> 33:103-119 (1985).
<i>WLF</i>	AS	<u>57</u>	Yoon, Y.G., et al., "Cre/loxP-mediated in vivo excision of large segments from yeast genome and their amplification based on the 2 μ m plasmid-derived system," <i>Gene</i> 223:67-76 (1998).
<i>WLF</i>	AT	<u>57</u>	York, D., et al., "Simple and efficient generation in vitro of nested deletions and inversions: Tn5 intramolecular transposition," <i>Nucl. Acids Res.</i> 26:1927-1933 (1998).

EXAMINER

WLF/jellapko

DATE CONSIDERED

10-9-2005

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
0942.285000M/BJD/JKMAPPLICATION NO.
10/680,316APPLICANT
Hartley et al.FILING DATE
October 8, 2003GROUP
1636

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS

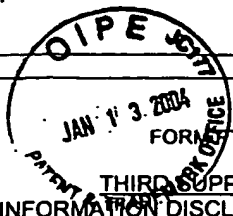
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>Waf</i>	AR	<u>58</u>	Zhang, Y. et al., "A new logic for DNA engineering using recombination in Escherichia coli," Nat. Genet. 20:123-128 (1998).
<i>Waf</i>	AS	<u>58</u>	Zhu, et al., "Homology requirements for ligation and strand exchange by the FLP recombinase," J. Biol. Chem. 270:11646-11653 (1995).
<i>Waf</i>	AT	<u>58</u>	International Search Report for International Application No. PCT/US98/22589, mailed October 26, 1998.

EXAMINER *Waf/alephor*DATE CONSIDERED
10-9-2005

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THIRD SUPPLEMENTAL
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0942.285000M/BJD/JKMAPPLICATION NO.
10/680,316FIRST NAMED INVENTOR
Hartley, et al.FILING DATE
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR		
	AS		
<i>waf</i>	AT	108	Institut Pasteur Integron System Website: Introduction, figs. 1-3 and Contact Page, available at http://www.pasteur.fr/recherche/unites/pmtg/integ/intro.html (accessed June 19, 2003).

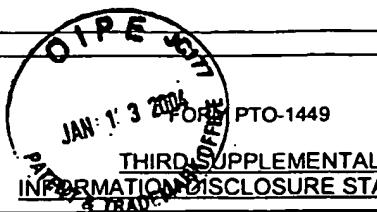
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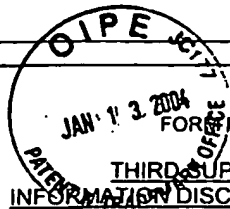
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		Page 2 of 6	
		ATTY. DOCKET NO. 0942.285000M/BJD/JKM	APPLICATION NO. 10/680,316
		FIRST NAMED INVENTOR Hartley, et al.	
		FILING DATE October 8, 2003	ART UNIT 1636

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maf	AR	109	Lee, M.H., et al., "Site-specific integration of mycobacteriophage L5: Integration-proficient vectors for <i>Mycobacterium smegmatis</i> , <i>Mycobacterium tuberculosis</i> , and bacille Calmette-Guérin," <i>Proc. Natl. Acad. Sci. USA</i> 88:3111-3115, National Academy of Sciences (1991).
	AS	109	Manning, P.A., et al., "Gene Capture in <i>Vibrio cholerae</i> ," <i>Trends In Microbiology</i> 7:93-95, Elsevier Science (1999).
	AT	109	Murayama, N., et al., "Evidence for Involvement of <i>Escherichia coli</i> Genes <i>pmbA</i> , <i>csrA</i> and a Previously Unrecognized Gene <i>ltdD</i> , in the Control of DNA Gyrase by <i>ltdD</i> (<i>ccdB</i>) of Sex Factor F," <i>J. Mol. Biol.</i> 256:483-502, Academic Press Limited (1996).
EXAMINER maf scapellato			DATE CONSIDERED 10-3-2005
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.			



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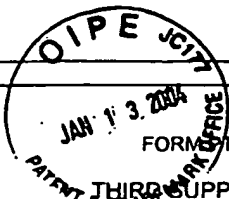
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>was</i>	AR	<u>110</u>	United States Application No. 09/177,387, Hartley et al., filed October 23, 1998 (NOT PUBLISHED).
	AS	<u>110</u>	United States Application No. 09/438,358, Gerard et al., filed November 12, 1999 (NOT PUBLISHED).
<i>was</i>	AT	<u>110</u>	United States Application No. 09/498,074, Hartley et al., filed February 4, 2000 (NOT PUBLISHED).

EXAMINER <i>was self-phill</i>	DATE CONSIDERED <i>9-28-2005</i>
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FORM PTO-1449 THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.285000M/BJD/JKM	APPLICATION NO. 10/680,316
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<i>WLF</i>	AR	<u>111</u>	United States Application No. 09/517,466, Hartley et al., filed March 2, 2000 (NOT PUBLISHED).
	AS	<u>111</u>	United States Application No. 09/648,790, Hartley et al., filed August 28, 2000 (NOT PUBLISHED).
<i>WLF</i>	AT	<u>111</u>	United States Application No. 09/695,065, Brasch et al., filed October 25, 2000 (NOT PUBLISHED).

EXAMINER <i>WLF/ellaphord</i>	DATE CONSIDERED <i>9-28-2005</i>
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FORM PTO-1449

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AO						Yes No
AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>not</i>	AR	<u>112</u>	United States Application No. 09/984,239, Brasch <i>et al.</i> , filed October 29, 2001 (NOT PUBLISHED).
<i>not</i>	AS	<u>112</u>	United States Application No. 10/396,996, Hartley <i>et al.</i> , filed March 26, 2003 (NOT PUBLISHED).
<i>not</i>	AT	<u>112</u>	United States Application No. 10/454,793, Chesnut <i>et al.</i> , filed June 5, 2003 (NOT PUBLISHED).

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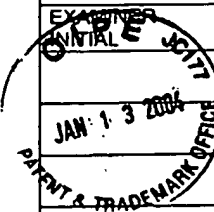
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>was</i>	AR	113	~~United States Application No. 10/640,422, Cheo et al., filed August 14, 2003 (NOT PUBLISHED).~~ NOT FOR PUBLICATION				
	AS						
	AT						
EXAMINER <i>was clegg</i>					DATE CONSIDERED <i>9-28-2005</i>		

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